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16	BRS	34	semantic and syntactic and (matrix or matrices).ab,ti,clm.	USPAT; EPO; JPO; IBM_TDB
17	BRS	N/A	(semantic and syntactic and (matrix or matrices).ab,ti,clm.) and link and index\$	USPAT; EPO; JPO; IBM_TDB
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Bitmap index design and evaluation

Keywords: MATLAB, array language compilation, inference

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Chee-Yong Chan, Yannis E. Ioannidis ACM SIGMOD Record, Proceedings of the 1998 ACM SIGMOD international conference on Management of data, Volume 27 Issue 2 Additional Information: full citation, abstract, references, citings, index terms Full text available: pdf(1.44 MB) Bitmap indexing has been touted as a promising approach for processing complex adhoc queries in read-mostly environments, like those of decision support systems. Nevertheless, only few possible bitmap schemes have been proposed in the past and very little is known about the space-time tradeoff that they offer. In this paper, we present a general framework to study the design space of bitmap indexes for selection queries and examine the disk-space and time characteristics that the various al ... A dictionary of APL Kenneth E. Iverson September 1987 ACM SIGAPL APL Quote Quad, Volume 18 Issue 1 Additional Information: full citation, citings, index terms Full text available: pdf(3.34 MB) Problems in the simulation of bibliographic retrieval systems Jean Tague, Michael Nelson, Harry Wu Proceedings of the 3rd annual ACM conference on Research and development in information retrieval Additional Information: full citation, references, citings Full text available: pdf(638.90 KB) An Introduction to Rlab Ian Searle June 1996 Linux Journal Full text available: html(24.39 KB) Additional Information: full citation, abstract, index terms A computational tool for scientific and engineering applications Silk from a sow's ear: extracting usable structures from the Web Peter Pirolli, James Pitkow, Ramana Rao Proceedings of the SIGCHI conference on Human factors in computing systems: April 1996 common ground Full text available: pdf(1.26 MB) html Additional Information: full citation, references, citings, index terms (35,72 KB) Keywords: World Wide Web, hypertext, information visualization Providing better support for a class of decision support queries Sudhir G. Rao, Antonio Badia, Dirk van Gucht ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international

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Relational database systems do not effectively support complex queries containing quantifiers (quantified queries) that are increasingly becoming important in decision support applications. Generalized quantifiers provide an effective way of expressing such queries naturally. In this paper, we consider the problem of processing quantified queries within the generalized quantifier framework. We demonstrate that current relational systems are ill-equipped, both at the language and at ...

¹¹ Notation as a tool of thought

Kenneth E. Iverson

August 1980 Communications of the ACM, Volume 23 Issue 8

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Keywords: APL, mathematical notation

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12 Vector space model of information retrieval: a reevaluation

S. K. M. Wong, Vijay V. Raghavan

July 1984 Proceedings of the 7th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(832,89 KB)

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In this paper we, in essence, point out that the methods used in the current vector based systems are in conflict with the premises of the vector space model. The considerations, naturally, lead to how things might have been done differently. More importantly, it is felt that this investigation will lead to a clearer understanding of the issues and problems in using the vector space model in information retrieval.

13 Exact arithmetic at low cost—a case study in linear programming

Bernd Gärtner

January 1998 Proceedings of the ninth annual ACM-SIAM symposium on Discrete algorithms

Full text available: ndf(1.14 MB)

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¹⁴ An approach to communication-efficient data redistribution

S. D. Kaushik, C.-H. Huang, R. W. Johnson, P. Sadayappan

July 1994 Proceedings of the 8th international conference on Supercomputing

Full text available: pdf(990.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

We address the development of efficient methods for performing data redistribution of arrays on distributed-memory machines. Data redistribution is important for the distributed-memory implementation of data parallel languages such as High Performance Fortran. An algebraic representation of regular data distributions is used to develop an analytical model for evaluating the communication cost of data redistribution. Using this algebraic representation and the analytical model, an approach t ...

Keywords: Tensor products, data communication, data distribution, distributed-memory machine, high performance Fortran

¹⁵ Data-centric multi-level blocking

Induprakas Kodukula, Nawaaz Ahmed, Keshav Pingali

May 1997 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1997 conference on Programming language design and implementation, Volume 32 Issue 5

Full text available: pdf(1.75 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present a simple and novel framework for generating blocked codes for high-performance machines with a memory hierarchy. Unlike traditional compiler techniques like tiling, which are based on reasoning about the control flow of programs, our techniques are based on reasoning directly about the flow of data through the memory hierarchy. Our data-centric transformations permit a more direct solution to the problem of enhancing data locality than current control-centric techniques do, and genera ...

¹⁶ Message extraction through estimation of relevance

Christopher Landauer, Clinton Mah

June 1980 Proceedings of the 3rd annual ACM conference on Research and development in information retrieval

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17 Techniques for measuring the stability of clustering: a comparative study

Vijay V. Raghavan, M. Y. L. Ip

May 1982 Proceedings of the 5th annual ACM conference on Research and development in information retrieval

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Among the significant factors in assessing the suitability of a clustering technique to a given application is its stability; that is, how sensitive the algorithm is to perturbations in the input data. A

number of techniques that appear to be suitable for measuring the stability of clustering have been published in the literature. The details about each of these measures, such as a description of the steps involved in their computation and an identification of precisely what they measure, are pr ...

¹⁸ An efficient bitmap encoding scheme for selection queries

Chee-Yong Chan, Yannis E. Ioannidis

ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD international conference on Management of data, Volume 28 Issue 2

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Bitmap indexes are useful in processing complex queries in decision support systems, and they have been implemented in several commercial database systems. A key design parameter for bitmap indexes is the encoding scheme, which determines the bits that are set to 1 in each bitmap in an index. While the relative performance of the two existing bitmap encoding schemes for simple selection queries of the form "v1 ≤ A

19 Model-based motion estimation for synthetic animations

Maneesh Agrawala, Andrew C. Beers, Navin Chaddha

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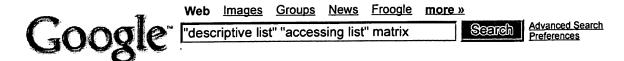
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